

# Overview of Kentucky's Waste Tire Program





# Background

- Kentucky's Waste Tire Program mandated by KRS 224.50-850
- Directs the cabinet to "... manage waste tires in a way that protects human health, safety and the environment, and which encourages the development of markets for waste tires."
- Funded by \$1 per tire fee at retailer



# Background

- Program Components
  - Waste Tire Collection Events and Grants
  - Waste Tire Site Remediation
  - Market Development
  - Annual Report to Legislature
  - Waste Tire Working Group

# Waste Tire Collection Events







# “Big Picture”

- Formerly called “Tire Amnesties” ...
- WTCE’s trend is toward lower volumes. Several factors that may explain this:
  - 4 year vs. 3 year schedule
  - \$4k Waste Tire Grant increased from \$3k in 2014
  - Improved enforcement of bans on retailers and scrap yards
- No corresponding increase in stray tires

# Tire Collection Events



- Open to all KY residents EXCEPT retailers, salvage yards or recycling facilities
- Counties are asked to attend training workshops prior to each WTCE
- County is required to advertise the event including info on participant eligibility

# Tire Collection Events



- Tires Accepted
  - Tires on and off rim
  - Tractor, truck and passenger
  - Farm implement, bicycle, motorcycle, go-cart, ATV



# Tire Collection Events



- Tires Not Accepted
  - Large off-the-road tires (OTR)
  - Tracks or sheet rubber
  - Solid, calcium or otherwise filled
  - Any tire with a bead greater than 1 ¾ inches







# 2017 WASTE TIRE COLLECTION EVENTS BY AREA DEVELOPMENT DISTRICT





# SPRING 2017 COUNTY EVENTS

## Cumberland Valley

Bell County  
Harlan County  
Whitley County  
Knox County  
Clay County  
Laurel County  
Jackson County  
Rockcastle County

## Gateway

Bath County  
Menifee County  
Montgomery County  
Morgan County  
Rowan County

## Big Sandy

Magoffin County  
Pike County  
Floyd County  
Johnson County  
Martin County

## Ky River

Breathitt County  
Knott County  
Lee County  
Leslie County  
Letcher County  
Owsley County  
Perry County  
Wolfe County







# FALL 2017 COUNTY EVENTS

## Northern Ky

Boone County  
Campbell County  
Carroll County  
Gallatin County  
Grant County  
Kenton County  
Owen County  
Pendleton County

## KIPDA

Bullitt County  
Henry County  
Oldham County  
Shelby County  
Spencer County  
Trimble County

## PURCHASE

Ballard County  
Calloway County  
Carlisle County  
Fulton County  
Graves County  
Hickman County  
Marshall County  
McCracken County



# Waste Tire Grant







# Background

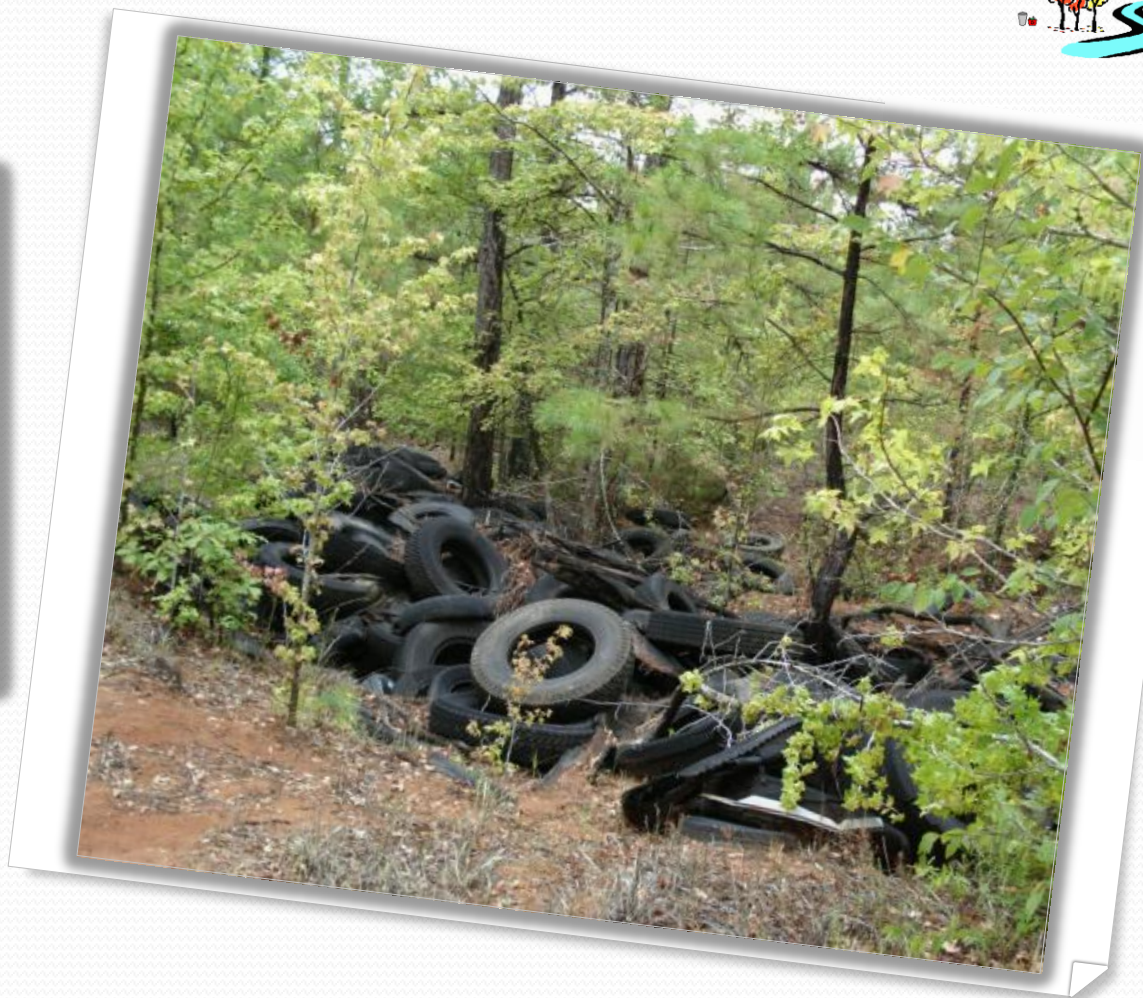
- Small annual grant to counties, began in 2011
- Intended to assist counties in waste tire management between WTCE's
- Used only for disposal or recycling costs
- Dependent on status of Waste Tire Fund
- Increased from \$3k to \$4k for 2015 cycle

# Waste Tire Collection Grant



- Complete Request and Agreement form (available now)
- Contact local retailers for pick-up and disposal options.
- Most have companies that come to the retail location to collect waste tires.
- Join their pick-up list.
- Complete closeout reporting

# Waste Tire Pile Cleanups





# "Off-sites"

- Managed on case-by-case basis
- Responsible party either unknown or unable to clean
- Sites with health (mosquitoes) or fire threat
- WTCE's take priority over small off-sites





# Estill County

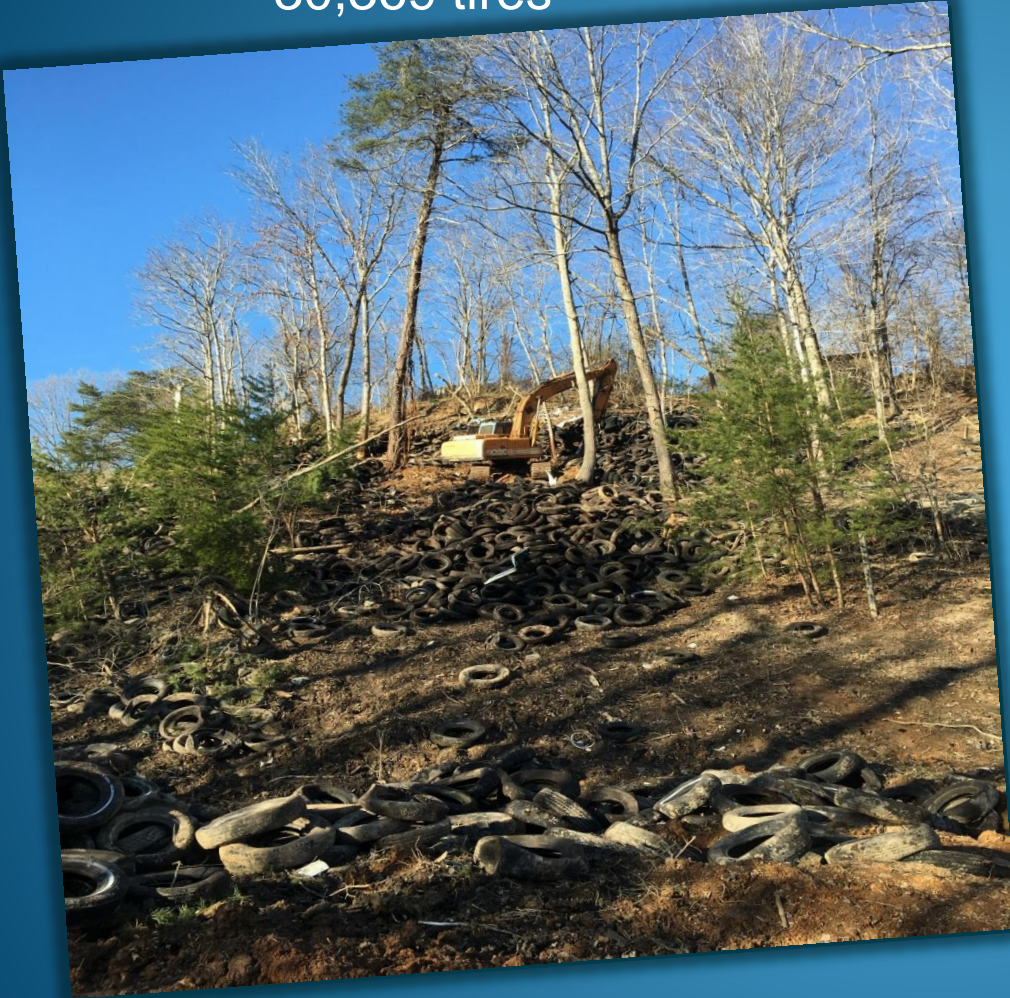
30,369 tires





# Estill County

30,369 tires







# Whitley County

6,412 tires







# Whitley County

6,412 tires





# Whitley County

6,412 tires







# Lyon County

7,850 tires







# Lyon County

7,850 tires







# Meade County

??? tires







# Meade County

??? tires







# Meade County

??? tires







# Meade County

??? tires







# Meade County

??? tires







# Meade County

??? tires







# Meade County

??? tires







# Meade County

??? tires







# Where do they go from here?





Tires are loaded on to trucks and transported to a processing facility.







# The Tire Processor

Tires are unloaded and sorted





# The Tire Processor

Tires are then sent through a series of shredders and conveyers.







# The Tire Processor

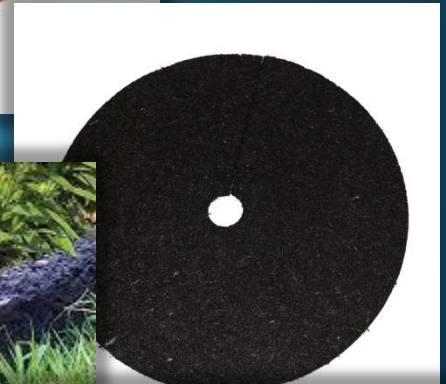
The Already Shredded Tires Are Sent Through A Series Of “Finer” Shredders.





# The Tire Processor

The finished product is packaged and sold to again become a useful product.



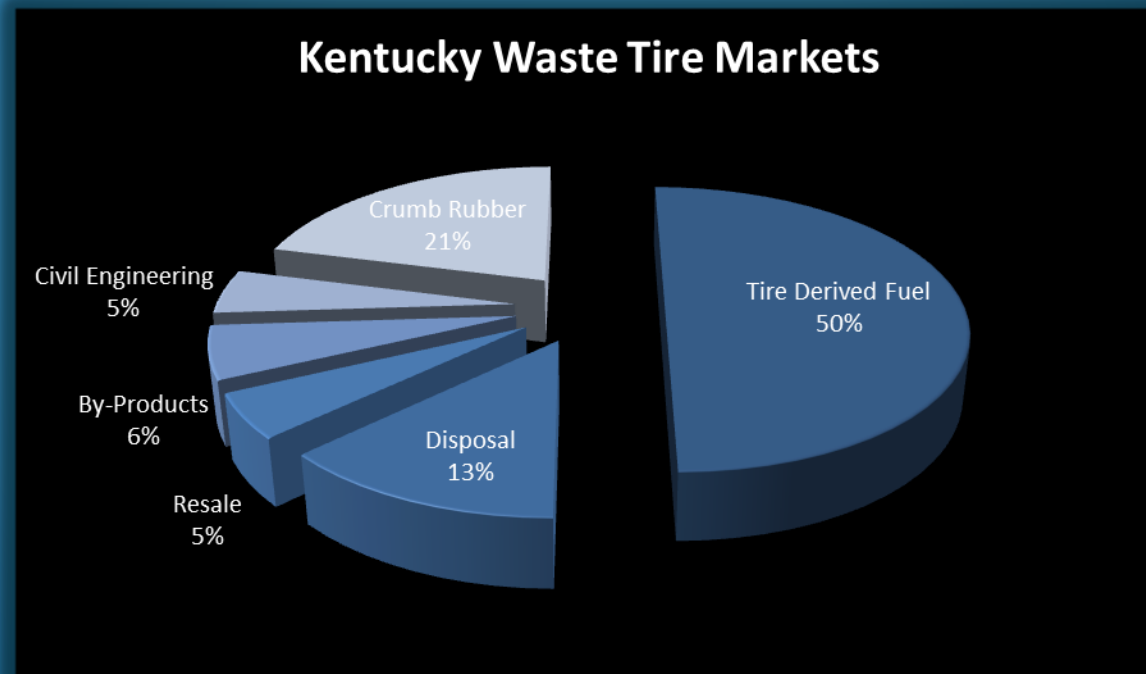


# Market Development





# Kentucky's Waste Tire Market 2016







# Tire Derived Fuel (TDF)

- Used in coal burning power plants, cement plants, etc.
- Improves emissions when burned with coal





# Crumb Rubber

- The Crumb Rubber Grant was established in 2004
- 390 projects at \$7 million to date
- Majority are for playground mulch
- Also used for athletic fields, walking trails, landscaping, etc.







# Rubberized Asphalt

- Incorporates crumb rubber into asphalt paving materials
- Can improve durability and wet weather traction
- Can lower noise levels
- Used successfully in many areas of the country





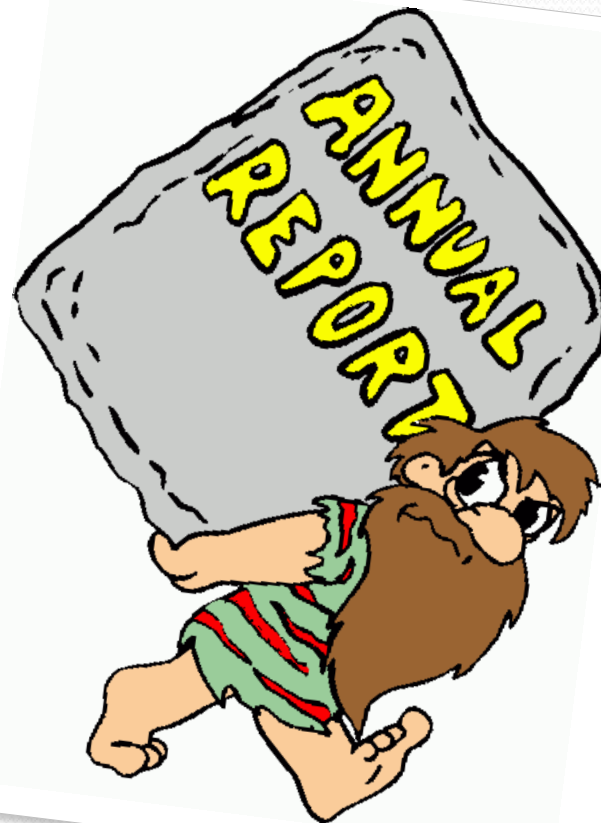
# Rubberized Asphalt

- First pilot project in N. KY in 2013
- New rubberized asphalt grant for counties
  - Chip Seal
  - 1-2 miles, one lane using rubberized asphalt
  - \$500,000 awarded to six counties in 2016





# Annual Waste Tire Report





# Annual Waste Tire Report

- Submitted to legislature by January 15
- Reports on effectiveness of waste tire programs
- Justify Waste Tire Trust Fund (\$1 tire fee)
- Program renewed for two more years in 2016





# Waste Tire Working Group (WTWG)





# Waste Tire Working Group

- Established 2011 by HB 433
- Provides advice to the cabinet
  - Alternative waste tire control methods
  - Research “core fee” concept
  - Improve manifest system
  - Assist local governments with direct grants
  - Develop fact sheets





# Waste Tire Working Group

- Members

- Director or Designee, DWM
- Manager, Recycling and Local Assistance Branch
- Department of Agriculture representative
- Two Solid Waste Coordinators of Kentucky (SWaCK) representatives
- Mayor
- County Judge Executive
- Retail sales representative

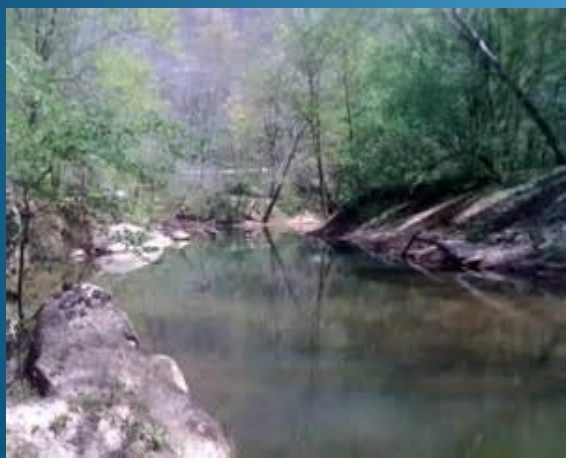
# Conclusion







# Our Goal is this....





# And NOT this....







# Any Questions?

## RLA Contact Information

Gary Logsdon	RLA Branch Manager	502-782-6405
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J.R. Holt	Recycle Section Supervisor	502-782-6385
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Chris Craig	Recycle Assistant	502-782-6346
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Grant White	Recycle Assistant	502-782-6474
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Website	<a href="http://waste.ky.gov">waste.ky.gov</a>	
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